

Monthly Report
Issued Monday December 7, 2015

(Presenting Progress from Preceding Month)

Refugio Incident

This monthly report addresses elements listed in the *Order for Removal, Mitigation or Prevention of a Substantial Threat of Oil Discharge*. The elements include descriptions of 1) anticipated problems and planned resolutions, 2) significant developments, 3) work performed, 4) treatment and disposal information, 5) analytical data received (if applicable), and 6) schedule of work. The following attachments contain detailed information pertaining to each listed element:

☐ **Summary of Anticipated Problems and Resolutions**

- Safety of SCAT crews and monitoring personnel will require continued vigilance and contractor hazard awareness and pre-cautions.

☐ **Progress Updates** (November 1 through December 6, 2015) – On August 28th 2015, FOSC approved a variance in frequency from weekly to monthly reports.

○ Significant Developments

- ☐ Observations of shoreline erosion and additional areas to be cleaned were made throughout November.

○ Work Performed

- ☐ Section 1 - Weekly irrigation of the restoration area continued this month. The weekly Stormwater-Erosion Control Plan (SW-ECP) inspections indicated that all of the Best Management Practices (BMPs) are still in place and aiding in preventing erosion across the site. Grass from seeding and follow up hydro-mulching has germinated and is beginning to grow in the previously hydro-mulched areas.
- ☐ Section 4 – The bi-weekly irrigation and weekly invasive weed removal have yielded greater than 20% coverage of native plant species with increasing species richness. The current coverage (Year 0) is equal to the expected coverage rate for the end of 2016 (end of Year 1). Although the site has yet to see a heavy rainfall event (triggering additional monitoring), the weekly SW-ECP inspections indicate that all BMPs are in place and preventing erosion as planned. Irrigation and site monitoring activities within the restoration area were performed on Tuesdays and Fridays throughout November. Weeding activities were conducted during Friday irrigation events.
- ☐ Section 5 – Weekly inspections noting geotechnical stability and environmental observations are conducted. Due to conditions posing a potential of oil discharge to the ocean above Phase II endpoints, a Strike Team made up of Plains and its contractors conducted a preventative clean-up event on November 10 under the supervision of the United States Coast Guard (USCG),

California Department of Fish and Wildlife (CDFW), Santa Barbara County EHS representatives, and local Cultural Specialists. The clean-up was concentrated in three areas: the ledge of the Western Bedrock Slope; the base of the east-facing vertical face of the Western Bedrock Slope near the Cobble Area; and the base of the large boulder in the east portion of the Cobble Area. Additional cleaning was also conducted along the oily fractures of the east vertical face. Due to the recent clean-up, Section 5 has showed significantly less weeping of oil throughout the remainder of the month.

- ☐ SCAT Teams surveyed and monitored with provisions for sampling. Patriot conducted beach cleaning activities. The I5-B cave and seawall have met endpoints and been documented as such. A spot check of Division K was conducted on November 20.
- ☐ An environmental team conference call is planned for every other Wednesday. This call is intended to keep the line of communication open between all interested environmental stakeholders and field personnel working on Refugio Incident restoration activities.
- ☐ Disposal Information
 - ☐ Waste generated during cleaning activities is being disposed of, as necessary.
- ☐ **Incident Action Plan** (Effective October 29, 2015 0600 – December 31, 2015 0600)
 - ☐ Schedule of Work to be Performed (Form 204)

Summary of Anticipated Problems and Resolutions

Refugio Incident

Month of December 2015

Anticipated Problems	Planned Resolutions
<input type="checkbox"/> Potential safety for field crews. Potential for fatigue/complacency.	<input type="checkbox"/> Brief all contractors on the need to remain vigilant and to ensure that personnel are appropriately informed and trained regarding hazards.

1. Incident Name Refugio Incident	2. Operational Period to be covered by IAP (Date/Time) From: 29 OCT 2015/06:00 To: 31 DEC 2015/06:00 Operations Period 23	CG IAP COVER SHEET
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3. Approved by Incident Commander(s):

<u>ORG</u>	<u>NAME</u>
USCG FOSC	_____
EPA FOSC	_____
SOSC	_____
LOSC	_____
RPIC	_____

INCIDENT ACTION PLAN

The items checked below are included in this Incident Action Plan:

☒ ICS 202-CG (Incident Objectives)

☒ ICS 202B-CG (Critical Information Reporting)

☒ ICS 207-CG (Organization Chart)

☒ ICS 204-CGs (Assignment Lists)
 One Copy each of any ICS 204-CG attachments:

☒ ICS 206-CG (Medical Plan)

☒ ICS 230-CG (Meeting Schedule)

4. Prepared by: Ryan Andersen, PSC	Date/Time OCT2015 06:00
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INCIDENT OBJECTIVES (ICS 202)

1. Incident Name: Refugio Incident	2. Operational Period:	Date From: 10/29/2015 Date To: 12/31/2016 Time From: 06:00 Time To: 06:00			
3. Objective(s): <ol style="list-style-type: none"> 1) Ensure the safety of response personnel and the public. 2) Continue Phase III Monitoring. 3) Continue Section 5 Monitoring. 4) Protect and minimize impacts to environmental, cultural, historic and economic resources where feasible. 5) Continue to care for and monitor the disposition of previously captured, injured and oiled wildlife. 6) Continue to provide stakeholders and the community relevant information about progress of response efforts. 					
4. Operational Period Command Emphasis: <ol style="list-style-type: none"> 1) Conduct Phase III Monitoring. 2) Continue to emphasize safety in all operations with an emphasis on Sections 4 and 5. 3) Maintain cultural/historical coordination for all operations and SCAT sign-offs. 4) Identify or list the segments requiring phase 3 monitoring. 5) Provide daily and weekly progress reports 					
General Situational Awareness					
5. Site Safety Plan Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Approved Site Safety Plan(s) Located at: Available through the DOCL					
6. Incident Action Plan (the items checked below are included in this Incident Action Plan): <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ICS 203 <input checked="" type="checkbox"/> ICS 204 <input type="checkbox"/> ICS 205 <input type="checkbox"/> ICS 205A <input checked="" type="checkbox"/> ICS 206 </td> <td style="width: 33%; vertical-align: top;"> <input checked="" type="checkbox"/> ICS 207 <input type="checkbox"/> ICS 208 <input checked="" type="checkbox"/> Map/Chart <input type="checkbox"/> Weather Forecast/Tides/Currents </td> <td style="width: 33%; vertical-align: top;"> Other Attachments: <input type="checkbox"/> ICS 202B Critical Reporting Requirements <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ </td> </tr> </table>			<input type="checkbox"/> ICS 203 <input checked="" type="checkbox"/> ICS 204 <input type="checkbox"/> ICS 205 <input type="checkbox"/> ICS 205A <input checked="" type="checkbox"/> ICS 206	<input checked="" type="checkbox"/> ICS 207 <input type="checkbox"/> ICS 208 <input checked="" type="checkbox"/> Map/Chart <input type="checkbox"/> Weather Forecast/Tides/Currents	Other Attachments: <input type="checkbox"/> ICS 202B Critical Reporting Requirements <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____
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7. Prepared by: Name: Ryan Andersen Position/Title: PSC Signature: _____					
8. Approved by Incident Commander: Name: Unified Command Signature: _____					
ICS 202	IAP Page	Date/Time: 10/28/2015 12:00 AM			

1. Incident Name Refugio Incident	2. Operational Period (Date/Time) 29OCT2015 31DEC2016 From: 06:00 To: 06:00	Critical Information Requirements ICS 202B
3. Critical Information Requirements: 1) Work site accidents / mishaps resulting property damage or injuries to responders beyond first aid. 2) Any VIP visits or political interest and concerns. 3) Deviation of strategies or tactics from approved Incident Action Plan. 4) Severe weather condition which could impact Operations. 5) Publication of inaccurate, significant, or unfavorable media stories. 6) Reports of negative stakeholder interests. 7) Cultural/historical impacts and/or concerns. 8) Weekly updates of Section 5 and SCAT activities.		
4. Prepared by: (Planning Section Chief) Ryan Andersen		Date/Time 28OCT2015 06:00

INCIDENT ORGANIZATION CHART (ICS 207)

Incident Name:
Refugio Incident

Operational Period:
23

Date From:
29OCT2015/06:00

Date To:
31DEC2016/06:00

Unified Command

FOSC USCG – Capt. Jennifer Williams
FOSC EPA – Maggie Waldon
SOSC – Capt. Christian Corbo
LOSC – Ryan Rockabrand
RPIC – Pat Hodgins

UNIFIED COMMAND

SAFETY OFFICER
Randy Fordham

OPERATIONS SECTION
Lanny Kippes/
Steven Franks

Oil Recovery Group –
Jason Guzman

PLANNING SECTION
Ryan Andersen

DOCL – Shellee Christensen

EUL - Mike Connell/Jennifer Gold

SCAT Team 1

SCAT Team 2

Section 5 Monitoring Team

LOGISTICS SECTION
Kathy Randall

FINANCE SECTION
Ruben Rendon/
Michael Rihani

ICS 207

Prepared By: Ryan Andersen (PSC)

Date/Time: 28OCT2015/06:00

ASSIGNMENT LIST (ICS 204)

[illegible]

HISTORICAL/CULTURAL GUIDELINES

- Leave cultural materials in place at the site of discovery, and mark its location.
- Stop clean-up work in the vicinity surrounding the site, within a 6ft radius.
- Immediately inform the field supervisor, who in turn, should immediately inform the FOSC and/or an appropriately designated cultural resource specialist. Obtain/provide location on map by indicating latitude/longitude.
- In the event a scheduled meal is not made available to your crew, report this immediately to your Branch Director and the Logistics Section Chief.
- No work in estuary or creek habitats without biological monitor and approval from EUL.

*** Weekly updates of SCAT activities will be reported to the Unified Command on a weekly basis. ***

8. Communications (radio and/or phone contact numbers needed for this assignment):

Name /Function Primary Contact: indicate cell, pager, or radio (frequency/system/channel)

123.02 MHZ / VHF channel 10&16

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/

/

9. Prepared by: Name: Ryan Andersen

Position/Title: PSC

Signature: _____

ICS 204

IAP Page

Date/Time: 10/28/2015 12:00 AM

ASSIGNMENT LIST (ICS 204)

[illegible]

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- No work in estuary or creek habitats without biological monitor and approval from EUL.

*** Weekly updates of Section 5 activities will be reported to the Unified Command on a weekly basis. ***

8. Communications (radio and/or phone contact numbers needed for this assignment):

Name	/Function	Primary Contact: indicate cell, pager, or radio (frequency/system/channel)
123.02 MHZ	/	VHF channel 10&16
	/	
	/	
	/	

9. Prepared by: Name: Ryan Andersen Position/Title: PSC Signature: _____

ICS 204	IAP Page	Date/Time: 10/28/2015 6:00 AM
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ASSIGNMENT LIST (ICS 204)

[illegible]

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Name	/Function	Primary Contact: indicate cell, pager, or radio (frequency/system/channel)
123.02 MHZ	/	VHF channel 10&16
	/	
	/	
	/	

9. Prepared by: Name: Ryan Andersen Position/Title: PSC Signature: _____

ICS 204	IAP Page	Date/Time: 10/28/2015 6:00 AM
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1. Incident Name: Refugio Incident Location: Mariposa Staging		2. Operational Period 21 From: 29OCT2015 To: 31DEC2016 06:00 06:00		MEDICAL PLAN ICS 206-CG		
3. Medical Aid Stations and contact information						
Name	Location	Contact #	Transport Availability			
Santa Barbara County Fire, water rescue, helicopter with hoist	4410 Cathedral Oaks, Santa Barbara, A	911	Yes			
Montecito and Carpentaria Fire Water Rescue Team	Santa Barbara County South	911	No			
Ventura Fire, Oxnard Fire, Ventura County Fire, water rescue, helicopter with hoist	Ventura County	911	No			
US Coast Guard, Medi-Vac. Rescue Swimmers	1001 South Seaside, San Pedro, CA 90731	855-562-4900 510-437-3701	Yes			
4. Transportation						
Ambulance Service	Address	Contact #	Care Capability			
American Medical Response	240 East Hwy 246 Buellton, CA 93117	805-245-3424	Paramedic/EMT team			
CALSTAR 7 (air medical transport team, no hoist)	3996 Mitchell Road Santa Monica, CA 93455	805-938-9038	Advanced Practice, 2 Nurse team			
Santa Barbara County Air Support (air medical transport team with hoist capabilities)	906 Airport Road Santa Ynez, CA 93460	805-692-5723 Or 911	2 Paramedic team with Rescue Swimmer			
Santa Barbara County Fire Rescue, Helicopter, Medical, water rescue and dispatch center	4408 Cathedral Oaks Road Santa Barbra	805-692-5723 or 911	Paramedic			
US Coast Guard	101 South Seaside Ave #20, San Pedro, CA 90731	855-562-4900 510-437-3701 VHF Channel 16	Rescue Swimmer/Medivac			
5. Hospitals						
Hospital Name	Address	Contact #	Travel Time		Burn Center	Helipad
			Air	Ground		
Goleta Valley Cottage Hospital	251 South Patterson Ave, Santa Barbara, CA 93111	805-967-3411	N/A	20/min		No
Grossman Burn Center	7300 Medical Center Drive West Hills CA	818-676-4177	20 min	1.25 hours	Yes	Yes
Santa Barbara Cottage Hospital (Anti-Venom is kept at this facility)	400 West Pueblo Street Santa Barbara, CA 93105	805-682-7111	8 min	27 min	No	Yes
Saint John Pleasant Valley Hospital	2309 Antonio Ave, Camarillo, CA 93010 Hyperbaric available Monday to Friday 0800-1800	(805) 389-5944	30	1 HR		

LA County Medical Alert (available 24/7)	200 UCLA Medical Plaza Suit B Los Angeles, CA 9005	1(866)940-4401	1 hour	N/A	No	Yes
UCLA Available 0800-1700	200 UCLA Medical Plaza Suit B Los Angeles, CA 9005	310-794-9014	30 min.	1 hour	No	Yes

6. Special Medical Emergency Procedures:

1. If medical, injury or dive emergency occurs on boat, call 911 and report location geographically where the incident is located (GPS Coordinates). 911 will dispatch appropriate emergency resources to scene.
2. Non-life/limb threatening illness or injury: notify direct supervisor, follow "medical reporting procedures" and render first aid.

**All illnesses and injuries will be reported on Incident Reporting Line 805-618-5769.
For any situation in need of Anti-venom, Please see Santa Barbara Cottage Hospital.**

Essential reporting information for EMS provider:

1. Nature of injury
2. Location of patient and point of contact
3. Point of contact
4. Age and gender of patient

7. Prepared by: (PSC) Ryan Andersen	Date/Time 28OCT2015	8. Reviewed by: (PSC)	Date/Time 28OCT2015
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1. Incident Name Refugio Incident		2. Operational Period (Date/Time) From:29 OCT2015/0600 To:31DEC2016/0600		DAILY MEETING SCHEDULE ICS 230-CG	
3. Meeting Schedule (Commonly-held meetings are included)					
Date/ Time	Meeting Name	Purpose	Attendees	Location	
18NOV2015 10:00 PST	UC Briefing	Teleconferencefor UC, CMD&GeneralStaffto discussongoingissues	IC/UC, CMD & General Staff	Teleconference	
16DEC2015 10:00 PST	UC Briefing	Teleconferencefor UC, CMD&GeneralStaffto discussongoingissues	IC/UC, CMD & General Staff	Teleconference	
20JAN2015 10:00 PST	UC Briefing	Teleconferencefor UC, CMD&GeneralStaffto discussongoingissues	IC/UC, CMD & General Staff	Teleconference	
17FEB2016 10:00 PST	UC Briefing	Teleconferencefor UC, CMD&GeneralStaffto discussongoingissues	IC/UC, CMD & General Staff	Teleconference	
16MAR2016 10:00 PST	UC Briefing	Teleconferencefor UC, CMD&GeneralStaffto discussongoingissues	IC/UC, CMD & General Staff	Teleconference	
20APR2016 10:00 PST	UC Briefing	Teleconferencefor UC, CMD&GeneralStaffto discussongoingissues	IC/UC, CMD & General Staff	Teleconference	
18MAY2016 10:00 PST	UC Briefing	Teleconferencefor UC, CMD&GeneralStaffto discussongoingissues	IC/UC, CMD & General Staff	Teleconference	
22JUN2016 10:00 PST	UC Briefing	Teleconferencefor UC, CMD&GeneralStaffto discussongoingissues	IC/UC, CMD & General Staff	Teleconference	
20JUL2016 10:00 PST	UC Briefing	Teleconferencefor UC, CMD&GeneralStaffto discussongoingissues	IC/UC, CMD & General Staff	Teleconference	
17AUG2016 10:00	UC Briefing	Teleconferencefor UC, CMD&GeneralStaffto discussongoingissues	IC/UC, CMD & General Staff	Teleconference	
21SEP2016 10:00 PST	UC Briefing	Teleconferencefor UC, CMD&GeneralStaffto discussongoingissues	IC/UC, CMD & General Staff	Teleconference	
19OCT2016 10:00 PST	UC Briefing	Teleconferencefor UC, CMD&GeneralStaffto discussongoingissues	IC/UC, CMD & General Staff	Teleconference	
16NOV2016 10:00 PST	UC Briefing	Teleconferencefor UC, CMD&GeneralStaffto discussongoingissues	IC/UC, CMD & General Staff	Teleconference	
15DEC2016 10:00 PST	UC Briefing	Teleconferencefor UC, CMD&GeneralStaffto discussongoingissues	IC/UC, CMD & General Staff	Teleconference	
4. Prepared by: Ryan Andersen, PSC			Date/Time: 28 OCT 2015 06:00		
MEETING SCHEDULE			ICS 230-CG (Rev.07/04)		